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and performance characteristics of its **database engine**. Although some may disagree, ... the **buffer cache** hit ratio along with the page reads statistic. ...
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database management system with tertiary storage at the. bottom layer. Data could be "elevated" ... storage volume manager, a disk-**cache buffer** manager, ...
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The user can **query** the **extent** of all freeways, and iterate. through the result set, ...
Database Engine SDE [25]. In the area of low-level spa- ...
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1 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

2 Interaction of query evaluation and buffer management for information retrieval

Björn T. Jónsson, Michael J. Franklin, Divesh Srivastava

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(1.81 MB) Additional Information: full citation, abstract, references, citings, index terms

The proliferation of the World Wide Web has brought information retrieval (IR) techniques to the forefront of search technology. To the average computer user, "searching" now means using IR-based systems for finding information on the WWW or in other document collections. IR query evaluation methods and workloads differ significantly from those found in database systems. In this paper, we focus on three such differences. First, due to the inherent fuzziness of the natural langua ...

3 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann

December 2002 **The VLDB Journal — The International Journal on Very Large Data**

Bases, Volume 11 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(300.97 KB) Additional Information: full citation, abstract, citings, index terms

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management system designed from scratch for storing and processing XML data. Contrary to the common belief that management of XML data is just another application for traditional databases like relational systems, we illustrate how almost every component in a ...

Keywords: Database, XML

4 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(63.03 MB) Additional Information: full citation, abstract, citings

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

5 The partitioned exponential file for database storage management
Christopher Jermaine, Edward Omiecinski, Wai Gen Yee
October 2007 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 16 Issue 4
Publisher: Springer-Verlag New York, Inc.
Additional Information: full citation, abstract, index terms

The rate of increase in hard disk storage capacity continues to outpace the rate of decrease in hard disk seek time. This trend implies that the value of a seek is increasing exponentially relative to the value of storage.

With this trend in mind, we introduce the partitioned exponential file (PE file) which is a generic storage manager that can be customized for many different types of data (e.g., numerical, spatial, or temporal). The PE file is inten ...

Keywords: Data warehousing, Indexing, Storage management

6 Inverted files for text search engines
Justin Zobel, Alistair Moffat
July 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 2
Publisher: ACM Press
Full text available: pdf(944.29 KB) Additional Information: full citation, abstract, references, index terms

The technology underlying text search engines has advanced dramatically in the past decade. The development of a family of new index representations has led to a wide range of innovations in index storage, index construction, and query evaluation. While some of these developments have been consolidated in textbooks, many specific techniques are not widely known or the textbook descriptions are out of date. In this

tutorial, we introduce the key techniques in the area, describing both a core impl ...

Keywords: Inverted file indexing, Web search engine, document database, information retrieval, text retrieval

7 A taxonomy of Data Grids for distributed data sharing, management, and processing

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1
Publisher: ACM Press
Full text available: pdf(1.70 MB) Additional Information: full citation, abstract, references, index terms

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

8 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

9 Multidatabase systems: Engineering an SQL gateway to IMS

G. N. Paulley
October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2 CASCON '93**
Publisher: IBM Press
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references

Multidatabase systems enable organizations to integrate legacy database systems, and their applications, with newer database technology. One such legacy system is IBM'S Information Management System (IMs), a hierarchical database management system developed in the 1960s. Commercial IMS gateways typically suffer from poor performance and lack essential features needed to support updates. In this paper, we outline the engineering issues of constructing a multi-user IMS gateway that supports both c ...

10 Self-tuning database technology and information services: from wishful thinking to viable engineering

Gerhard Weikum, Axel Moenkeberg, Christof Hasse, Peter Zabback
August 2002 **Proceedings of the 28th international conference on Very Large Data Bases - Volume 28 VLDB '2002**
Publisher: VLDB Endowment
Full text available: pdf(553.39 KB) Additional Information: full citation, abstract, references, index terms

Automatic tuning has been an elusive goal for database technology for a long time and is becoming a pressing issue for modern E-services. This paper reviews and assesses the advances that have been made on this important subject during the last ten years. A

major conclusion is that self-tuning database technology should be based on the paradigm of a feedback control loop, but is also bound to build on mathematical models and their proper engineering into system components. In addition, the co ...

11 DB systems topics: A framework for enforcing application policies in database systems

Lin Qiao, Basuki Soetarman, Gene Fuh, Adarsh Pannu, Baoqiu Cui, Thomas Beavin, William Kyu

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

Publisher: ACM Press

Full text available: pdf(254.05 KB) Additional Information: full citation, abstract, references, index terms

As database systems have grown in terms of scale and complexity, administration tasks have become increasingly difficult and time consuming. A scarcity of skilled database professionals has meant that human costs have begun to dominate the total cost of ownership (TCO) of a database system. Database vendors are under immense pressure to provide solutions that make their products easy to administer in areas such as problem diagnostics, monitoring, query tuning, access control and system config ...

Keywords: database system, policy, self-managing

12 Synchronization and recovery in a client-server storage system

E. Panagos, A. Biliris

August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(205.25 KB) Additional Information: full citation, abstract, citings, index terms

Client-server object-oriented database management systems differ significantly from traditional centralized systems in terms of their architecture and the applications they target. In this paper, we present the client-server architecture of the EOS storage manager and we describe the concurrency control and recovery mechanisms it employs. EOS offers a semi-optimistic locking scheme based on the multi-granularity two-version two-phase locking protocol. Under this scheme, multiple concurrent reade ...

Keywords: Checkpoint, Client-server architecture, Object management, Concurrency control, Locking, Logging, Recovery, Transaction management

13 Query processing of semi-structured data: Xpath on steroids: exploiting relational engines for xpath performance

Haris Georgiadis, Vasilis Vassalos

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

Publisher: ACM Press

Full text available: pdf(868.78 KB) Additional Information: full citation, abstract, references, index terms

A lot of research has been conducted by the database community on methods and techniques for efficient XPath processing, with great success. Despite the progress made, significant opportunities for optimization of XPath still exist. One key to further improvements is to utilize more effectively existing facilities of relational RDBSes for the processing of XPath queries. After taking a comprehensive look at such facilities, we present techniques for XPath processing that work by identifying t ...

Keywords: XML, XML reconstruction, XPath, dewey encoding, indices, relational

databases, schema mapping, structural joins

14 External memory algorithms and data structures: dealing with **massive data**

Jeffrey Scott Vitter
June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2
Publisher: ACM Press
Full text available: pdf(828.46 KB) Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

15 The *Conquest* file system: Better performance through a disk/persistent-RAM hybrid design

An-I Andy Wang, Geoff Kuenning, Peter Reiher, Gerald Popek
August 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 3
Publisher: ACM Press
Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, index terms

Modern file systems assume the use of disk, a system-wide performance bottleneck for over a decade. Current disk caching and RAM file systems either impose high overhead to access memory content or fail to provide mechanisms to achieve data persistence across reboots.The *Conquest* file system is based on the observation that memory is becoming inexpensive, which enables all file system services to be delivered from memory, except for providing large storage capacity. Unlike caching, *Con ...*

***Keywords**: Persistent RAM, file systems, performance measurement, storage management*

16 Exokernel: an operating system architecture for application-level resource management

D. R. Engler, M. F. Kaashoek, J. O'Toole
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5
Publisher: ACM Press
Full text available: pdf(2.16 MB) Additional Information: full citation, references, citings, index terms

17 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press

Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

18 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh
January 2006 **ACM Oral History interviews**

Publisher: ACM Press

Full text available: pdf(761.66 KB) Additional Information: full citation, abstract

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

19 Geiger: monitoring the buffer cache in a virtual machine environment

Stephen T. Jones, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau
October 2006 **ACM SIGOPS Operating Systems Review , ACM SIGARCH Computer Architecture News , ACM SIGPLAN Notices , Proceedings of the 12th international conference on Architectural support for programming languages and operating systems ASPLOS-XII**, Volume 40 , 34 , 41 Issue 5 , 5 , 11

Publisher: ACM Press

Full text available: pdf(326.97 KB) Additional Information: full citation, abstract, references, index terms

Virtualization is increasingly being used to address server management and administration issues like flexible resource allocation, service isolation and workload migration. In a virtualized environment, the virtual machine monitor (VMM) is the primary resource manager and is an attractive target for implementing system features like scheduling, caching, and monitoring. However, the lackof runtime information within the VMM about guest operating systems, sometimes called the semantic gap, is a s ...

Keywords: inference, virtual machine

20 NiagaraCQ: a scalable continuous query system for Internet databases

Jianjun Chen, David J. DeWitt, Feng Tian, Yuan Wang
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(165.02 KB) Additional Information: full citation, abstract, references, citings, index terms

Continuous queries are persistent queries that allow users to receive new results when they become available. While continuous query systems can transform a passive web into an active environment, they need to be able to support millions of queries due to the scale of the Internet. No existing systems have achieved this level of scalability. NiagaraCQ addresses this problem by grouping continuous queries based on the observation that many web queries share similar structures. Grouped queries ...

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next

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databases | easy search

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Inspec - 1898 to date (INZZ)

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Search history:

No.	Database	Search term	Info added since	Results	
CP		[Clipboard]		0	-
1	INZZ	database	unrestricted	148193	show titles
2	INZZ	1 AND extent$	unrestricted	1257	show titles
3	INZZ	2 AND pages	unrestricted	6	show titles
4	INZZ	2 AND buffer ADJ cache	unrestricted	0	-
5	INZZ	1 AND buffer ADJ cache	unrestricted	16	show titles
6	INZZ	5 AND pages	unrestricted	2	show titles

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☐	L79	L78 and (engine same (quer$ or search$ or request$ or question$ or enquir$ or inquir$))	1
☐	L78	L77 and ((buffer adj1 cache) same extent$)	4
☐	L77	((database or (data adj1 base)) same table$ same extent$)	824
☐	L76	(l73 or l74 or L75) and ((database or (data adj1 base)) same table$ same extent$)	2
☐	L75	CHERKAUER-KEVIN-JAMES.in.	3
☐	L74	YOUNG-JASON-CHRISTOPHER.in.	6
☐	L73	LASHLEY-SCOTT-DAVID.in.	6
		DB=PGPB,USPT,USOC; PLUR=NO; OP=OR	
☐	L72	CHERKAUER-KEVIN-JAMES.in.	3
☐	L71	L70 and ((extent or extents) near page$)	2
☐	L70	(L66 or L67 or L68 or L69) and ((search$ or quer$ or request$ or inquir$ or enquir$ or question$) near (extent or extents))	102
☐	L69	(707/104.1).ccls.	6750
☐	L68	(707/100).ccls.	5786
☐	L67	(707/5).ccls.	2689
☐	L66	(707/1).ccls.	6074
☐	L65	(L63 or L64) and (search$ or quer$ or request$ or inquir$ or enquir$ or question)	100
☐	L64	L62 and ((extent or extents) near page$)	2
☐	L63	L62 and ((database$ or (data adj1 base$)) with table$)	101
☐	L62	(L60 or L61) and (buffer adj1 cach$)	280
☐	L61	(707/200 |707/201 |707/202 |707/203 |707/204 |707/205).ccls.	9182
☐	L60	(707/2 |707/3 |707/4).ccls.	12640
☐	L59	L58 and engine$	29
☐	L58	L57 and (search$ or quer$ or request$ or inquir$ or enquir$ or question)	29
☐	L57	L56 and (buffer adj1 cach$)	29
☐	L56	(database adj1 engine$)	2971
☐	L55	L54 and engine$	1
☐	L54	20030041214.pn.	1
☐	L53	L52 and (engine$ near (search$ or quer$ or request$ or inquir$ or enquir$ or question$))	37

☐	L52	(buffer adj1 cach$)	2693
☐	L51	L50 and (buffer near cach$)	24
☐	L50	L49 and (engine$ near (search$ or quer$ or request$ or inquir$ or enquir$ or question$))	5636
☐	L49	((database$ or (data adj1 base$)) with table$)	67646
☐	L48	L47 and ((database$ or (data adj1 base$)) with table$)	21
☐	L47	L46 and cach$	127
☐	L46	L45 and (engine$ near (search$ or quer$ or request$ or inquir$ or enquir$ or question$))	272
☐	L45	((extent or extents) with (page or pages))	3593
☐	L44	L43 and (extent or extents)	4
☐	L43	L41 and (buffer with cach$)	20
☐	L42	L41 and (buffer near cach$)	1
☐	L41	L40 and (engine$ near (search$ or quer$ or request$ or inquir$ or enquir$ or question$))	1836
☐	L40	(international adj1 business).asn.	72220
☐	L39	2002198872.pn.	0
☐	L38	2002198872.pn.	0
☐	L37	L36 and (engine$ near (search$ or quer$ or request$ or inquir$ or enquir$ or question$))	24
☐	L36	((extent or extents) near page$)	245
☐	L35	L26 and ((extent or extents) near page$)	2
☐	L34	L33 and page$	11
☐	L33	(L29 or L30) and ((database$ or (data adj1 base$)) with table$)	12
☐	L32	(L29 or L30) and (memory with (database$ or (data adj1 base$)) with table$)	0
☐	L31	L26 and (memory with (database$ or (data adj1 base$)) with table$)	2
☐	L30	L28 and (extent or extents).ab.	67
☐	L29	L28 and (extent or extents).ti.	2
☐	L28	(engine$ near (search$ or quer$ or request$ or inquir$ or enquir$ or question$))	25588
☐	L27	L26 and engine$	1
☐	L26	(buffer near cach$ near (extent or extents))	2
☐	L25	L15 and (search$ or request$ or inquir$ or enquir$ or question$ or quer$)	2
☐	L24	L22 and page$	1
☐	L23	(L18 or L19 or L20) and engine$	0
☐	L22	L21 and engine$	1
☐	L21	L11 and ((search$ or quer$ or request$ or inquir$ or enquir$ or question$) near (extent or extents))	5
☐	L20	L11 and ((extent or extents) same (buffer adj1 cach$))	2
☐	L19	L11 and ((extent or extents) with (buffer adj1 cach$))	2

☐	L18	L11 and ((extent or extents) near (buffer adj1 cach$))	1
☐	L17	L11 and ((search$ or quer$ or request$ or inquir$ or enquir$ or question$) with (extent or extents) with (buffer adj1 cach$))	0
☐	L16	L15 and engine$	1
☐	L15	L14 and (memory with (database$ or (data adj1 base$)) with table$)	2
☐	L14	L13 and (database$ or (data adj1 base$))	6
☐	L13	((buffer adj1 cache) with (extent or extents))	11
☐	L12	((buffer adj1 cache) near (extent or extents))	2
☐	L11	*DB=USPT; PLUR=NO; OP=OR* (5317727 5812996 5822749 5758149 5794229 5794228 5655080 6374232 6973452 6101497 6442551 6021426 5903898 5956705 6457020 6470330 6243710 5668987 6073129 6105033 6122627 6134540 6226637 6226637 6285997 6341281 6470344 6477527 6574639 6801905 6889234 5832508 5737536 5826253 5850507 6182241 6898608 6957177 5201046 5511190 5742806 5918225 6289334 5884303 6654752 6961729 7010308 6389513 5787418 5842209).pn. (6078926 5426747 5940289 6125209 5581704 5615362 5706506 5802524 5832475 5941947 5944780 5974129 5999946 6009271 6070165 6122628 6128648 6134541 6185557 6279033 6282281 6360214 6381627 6401090 6411966 6438562 6449657 6466570 6487641 6532490 6539382 6601062 6604096 6694306 6694322 6732117 6741997 6763357 6898603 6950823 7062480 6728840 6912636 5799210 6230220 6591351 6760824 6904503 6347312 6748386).pn. (6014655 6115705 5210870 5237661 5454105 5530883 5537622 5537604 5537603 5548769 5590362 5619713 5745915 5758146 5778353 6457000 6691101 6754825 6836845 5418940 5802599 6049848 5907846 5010478 5283894 5542078 5781897 5918224 6115703 6928451 5561778 5579499 5590319 5594881 5600831 5701460 5737591 6134018 6253195 5506984 5694608 5893125 6138112 5317731 5495606 5546576 5560007 5596744 5634053 5664173).pn. (5666528 5724570 5412806 5603025 5692182 5692174 5727196 5787416 5845288 5870752 5894311 5903887 5937401 5950188 6006224 6012064 6044370 6076092 6081801 6212526 5201048 5265244 5329626 5367675 5423022 5504885 5574900 5596745 5615337 5619688 5627959 5632015 5694591 5701456 5701453 5749079 5761493 5761653 5774692 5794231 5797136 5799310 5806066 5826077 5835904 5842197 5842196 5852821 5878426 5897622).pn. (5905982 5918232 5924089 5930795 5930764 5937415 5943666 5953715 5956727 5960426 5966695 5974407 5974418 5987454 5991754 5995958 5995957 5995973 6006214 6009265 6009428 6012054 6016488 6023695 6023696 6026391 6044216 6047285 6047291 6078925 6081799 6085189 6088694 6092061 6105025 6108647 6108648 6112198 6125360 6134543 6134546 6138120 6148296 6192370 6199062 6199063 6212526 6249783 6249791 6263339).pn. (6272487 6282547 6298342 6324533 6353826 6356889 6363387 6381605 6421658 6427123 6430556 6453269 6460043 6470287 6470335 6477525 6477540 6496819 6502088 6507834 6516310 6549907 6557012 6560593 6571232 6581052 6581060 6584476 6598059 6615202 6615206 6618719 6631386 6633882 6636846 6691166 6697818 6708179 6708186 6714938 6732084 6735582 6735598 6741982 6748377 6757670 6799184 6801850 6807546).pn. *DB=PGPB,USPT,USOC; PLUR=NO; OP=OR*	297

☐	L10	L9 and ((search$ or request$ or inquir$ or enquir$ or question$ or quer$) with (extent or extents))	13
☐	L9	L8 and (database$ or (data adj1 base$))	50
☐	L8	((table or tables) with (extent or extents) with (page or pages))	97
☐	L7	((database$ or (data adj1 base$)) with (table or tables) with (extent or extents) with (page or pages))	4
☐	L6	L3 and L5	11
☐	L5	((re-order$ or reorder$) near (page or pages))	157
☐	L4	((re-order$ or reorder$) near (extent or extents))	24
☐	L3	((database$ or (data adj1 base$)) with (page or pages) with (quer$ or search$ or question$ or inquir$ or enquir$ or request$))	7592
☐	L2	((database$ or (data adj1 base$)) with (extent or extents) with (quer$ or search$ or question$ or inquir$ or enquir$ or request$) with (buffer adj1 cache))	1
☐	L1	((database$ or (data adj1 base$)) with (extent or extents) with (quer$ or search$ or question$ or inquir$ or enquir$ or request$))	365

END OF SEARCH HISTORY